What is claimed is:

- 1. A brushless D.C. motor comprising:
- a housing;
- a stator positioned within said housing; and
- at least one radial spring positioned between said housing and said
- 5 stator to retain said stator within said housing.
 - 2. The brushless D.C. motor of claim 1 wherein said radial spring is a tolerance band having a plurality of waves formed thereon.
 - 3. The brushless D.C. motor of claim 2 wherein said tolerance band has a first and a second end.
 - 4. The brushless D.C. motor of claim 2 wherein said tolerance band is made from steel.
 - 5. The brushless D.C. motor of claim 2 wherein said housing includes a groove and said tolerance band is positioned within said groove.
 - 6. The brushless D.C. motor of claim 5 wherein said housing is made from aluminum.
 - 7. The brushless D.C. motor of claim 5 further comprising a damping material positioned in said groove.
 - 8. The brushless D.C. motor of claim 7 wherein said damping material is a grease.
 - 9. The brushless D.C. motor of claim 7 wherein said damping material is rubber.

- 10. A tolerance band to press fit a stator in a motor housing comprising:
 - a length of sheet material; and, a plurality of wave structures formed in said length of sheet material.
- 11. A tolerance band as claimed in claim 10 wherein said plurality of wave structures are identical to one another.
- 12. A tolerance band as claimed in claim 10 wherein at least one of said plurality of wave structures is distinct from a remainder of said wave structures.
- 13. A tolerance band as claimed in claim 10 wherein said plurality of wave structures are lenticular in shape.
- 14. A tolerance band as claimed in claim 10 wherein said tolerance band is annular.
- 15. A tolerance band as claimed in claim 10 wherein said tolerance band includes first and second ends spaced from one another.
 - 16. A tolerance band for a brushless D.C. motor comprising: a body having a first and second end; and, a plurality of waves formed between said first and second ends.
- 17. The tolerance band of claim 16 wherein said plurality of waves are equally spaced between said first and second ends.
- 18. The tolerance band of claim 17 wherein said body is generally circularly shaped.
- 19. The tolerance band of claim 17 wherein said waves have a crest offset a predetermined distance from said body.

- 20. The tolerance band of claim 18 wherein said crest is generally curved in shape.
- 21. The tolerance band of claim 18 wherein said top portion is generally flat in shape.
- 22. The tolerance band of claim 18 wherein said tolerance band is made from steel.
- 23. The tolerance band of claim 18 wherein said tolerance band is made from an elastomeric material.